

WHAT IS CLAIMED IS:

1 1. A computing system in which a plurality of OSs run on
2 hardware of one computer, said computing system comprising:

3 management agents that are respectively executed on the OSs,
4 to manage said OSs;

5 a partitioning control unit that holds partition configuration
6 information indicating a relation between each OS and the hardware,
7 and controls allocation of the hardware to each OS; and

8 a hardware data collection unit that collects data on said
9 hardware;

10 wherein:

11 said computing system uses said partition configuration
12 information to perform hardware management for each OS.

1 2. The computing system according to Claim 1, further
2 comprising:

3 management consoles for performing data collection, failure
4 data reception, and control of said computer on which a plurality of
5 OSs run.

1 3. The computing system according to Claim 2, wherein:

2 when one of said management agents receives a request from
3 one of said management consoles for acquisition of hardware
4 configuration information, the management agent notifies said request
5 to said partitioning control unit;

6 the partitioning control unit, which has been notified of said
7 request, acquires the data on said hardware from said hardware data
8 collection unit, and extracts requested information on hardware using
9 said partition configuration information, to send said information
10 extracted to said management agent; and

11 said management agent notifies the information received from
12 said partitioning control unit to said management console.

1 4. The computing system according to Claim 2, wherein:

2 when said hardware data collection unit detects an occurrence
3 of a failure in a piece of the hardware, the hardware data collection
4 unit notifies the failure data to said partitioning control unit;

5 said partitioning control unit notifies said failure data to
6 management agents corresponding to OSs allocated with said piece of
7 the hardware in which the failure has occurred; and

8 said management agents notified of said failure data, in turn,
9 notify said failure data to said management consoles.

1 5. The computing system according to Claim 1, wherein:

2 when said hardware data collection unit detects an occurrence
3 of a failure in a piece of the hardware, the hardware data collection
4 unit notifies the failure data to said partitioning control unit;

5 said partitioning control unit notifies said failure data to
6 management agents corresponding to OSs allocated with said piece of
7 the hardware in which the failure has occurred; and

8 said management agents notified of said failure data control
9 software, based on the failure data notified.

1 6. The computing system according to Claim 1, wherein:
2 when one of said management agents detects an occurrence of
3 a failure in software, said management agent notifies the failure data
4 to said partitioning control unit;
5 said partitioning control unit performs control of reallocation
6 of the hardware allocated to each OS, and/or performs activation
7 control for each OS, based on said failure data.

1 7. A computing system in which a plurality of OSs run on
2 hardware of one computer, said computing system comprising:

3 an integrated management agent that is executed on a primary
4 OS to manage said computer;

5 software management agents that are respectively executed on
6 the OSs except for said primary OS, to manage software executed on
7 respective OSs concerned;

8 a partitioning control unit that holds partition configuration
9 information indicating a relation between each OS and the hardware,
10 and controls allocation of the hardware to each OS; and

11 a hardware data collection unit that collects data on said
12 hardware;

13 wherein:

14 said computing system uses said partition configuration
15 information to perform hardware management for each OS.

1 8. The computing system according to Claim 7, further
2 comprising:

3 management consoles for performing data collection, failure
4 data reception, and control of said computer on which a plurality of

5 OSs run.

1 9. The computing system according to Claim 8, wherein:
2 when said integrated management agent receives a request
3 from one of said management consoles for acquisition of hardware
4 configuration information, said integrated management agent notifies
5 said request to said partitioning control unit;

6 the partitioning control unit, which has been notified of said
7 request, acquires the data on said hardware from said hardware data
8 collection unit, and extracts requested information on hardware using
9 said partition configuration information, to send said information
10 extracted to said integrated management agent; and

11 said integrated management agent notifies the information
12 received from said partitioning control unit to said management
13 console.

1 10. The computing system according to Claim 7, wherein:
2 when said hardware data collection unit detects an occurrence
3 of a failure in the hardware, the hardware data collection unit notifies
4 the failure data to said partitioning control unit;

5 said partitioning control unit notifies said failure data to said
6 integrated management agent; and

7 said integrated management agent controls software through
8 said software management agents, based on the failure data notified.

1 11. The computing system according to Claim 7, wherein:
2 when one of said software management agents detects an
3 occurrence of a failure in software, said software management agent

- 4 notifies the failure data to said partitioning control unit;
- 5 said partitioning control unit performs control of reallocation
- 6 of the hardware allocated to each OS, and/or performs activation
- 7 control for each OS, based on said failure data.

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